

Table 11. A Comparison Of The Calculated Fish Biomass For Selected Species MT/Ha) in the Open Water of Laguna Lake Based on Production Data of BAS (A) and the Biomass Calculated by ECOPATH II Model (B)¹

Year	Grams per cubic meter				
	1973	1974	1975	1976	1977
Blue-green algae	36	26	-- ^a	1.30	-- ^a
Green algae	<1	<1	<1	1.00	-- ^a
Diatoms	4	7.10	-- ^a	5.00	-- ^a
Average	14	12		2.43	

Note:

a = data incomplete

CONCLUSIONS

The fish production calculated from the net primary productivity data is a good estimate of the actual fish production (BAS). Likewise, fish production can be calculated from algal biovolume. Fish biomass values computed from the fish catch by the ECOPATH II model do not tally with those computed from the Bureau of Agricultural Statistics (BAS) production data.

RECOMMENDATIONS

In order to validate the results of this study more primary data should be gathered using the three methods of estimating primary productivity, which are net primary productivity (NPP), biovolume, and chlorophyll *a* analyses for about 5 to 10 years. This kind of extensive study can be undertaken in collaboration with all the research and academic institutions around Laguna Lake.

Moreover, since the diatoms usually predominate the phytoplankter of Laguna Lake both in quantity and types, and since they are the preferred natural food of the phytoplankter fish feeders, probably a means of estimating primary productivity based on chl *c* can be studied.